AMENDMENTS TO THE CLAIMS:

Please amend claims 1, 14 and 15 as follows.

This listing of claims will replace all prior versions, and listings, of claims in the application:

- 1. (currently amended) Apparatus for processing data, said apparatus comprising:
- (i) a shifting circuit;
- (ii) a bit portion selecting and combining circuit; and
- (iii) an instruction decoder, responsive to a single instruction multiple data an instruction to control said shifting circuit and said bit portion selecting and combining circuit, for performing an operation upon a data word Rn and a data word Rm, wherein said operation yields a value given by:
- (a) selecting a first portion of bit length A of said data word Rn extending from one end of said data word Rn;
- (b) selecting a second portion of bit length B of said data word Rm subject to an arithmetic right shift by a right-shift amount specified as a shift operand within said single-instruction multiple data instruction, said right-shift amount being independent of said bit length A of said first portion; and
- (c) combining said first portion and said second portion to form respective different bit position portions of an output data word Rd.
- 2. (original) Apparatus as claimed in claim 1, wherein said first portion extends from a most significant bit end of said data word Rn.

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- 3. (original) Apparatus as claimed in claim 1, wherein said first portion extends from a least significant bit end of said data word Rn.
- 4. (previously presented) Apparatus as claimed in claim 1, wherein said shift operand can specify a number of bit-positions representing an amount of arithmetic right shift to apply to said data word Rm.
- 5. (original) Apparatus as claimed in claim 1, wherein said first portion and said second portion abut within said output data word Rd.
- 6. (oxiginal) Apparatus as claimed in claim 5, wherein said output data word has a bit length of C and C = A + B.
 - 7. (original) Apparatus as claimed in claim 6, wherein A = B.
 - 8. (original) Apparatus as claimed in claim 1, wherein A = 16.
 - 9. (original) Apparatus as claimed in claim 1, wherein B = 16.
 - 10. (cancelled).

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- 11. (original) Apparatus as claimed in claim 1, wherein said instruction combines a data value pack operation with a shift operation.
- 12. (original) Apparatus as claimed in claim 1, wherein said shifting circuit is upstream of said selecting and combining circuit in a data path of said apparatus.
- 13. (original) Apparatus as claimed in claim 12, wherein said selecting and combining circuit is disposed in parallel to an arithmetic circuit within said data path.
- 14. (currently amended) A method of data processing, said method comprising the steps of decoding and executing a single instruction multiple data instruction by performing an operation on a data word Rn and a data word Rm, wherein said operation yields a value given by:
- selecting a first portion of bit length A of said data word Rn extending from one (i) end of said data word Rn:
- selecting a second portion of bit length B of said data word Rm subject to an (ii) arithmetic right shift by a right-shift amount specified as a shift operand within said singleinstruction multiple data instruction, said right-shift amount being independent of said bit length A of said first portion; and
- combining said first portion and said second portion to form respective different (iii) bit position portions of an output data word Rd.

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- 15. (currently amended) A computer program provided on a computer-readable medium, said computer program for controlling a computer to perform the steps of decoding and executing a single instruction multiple data instruction for performing an operation upon a data word Rn and a data word Rm, wherein said operation yields a value given by:
- (i) selecting a first portion of bit length A of said data word Rn extending from one end of said data word Rn;
- (ii) selecting a second portion of bit length B of said data word Rm subject to an arithmetic right shift by a right-shift amount specified as a shift operand within said single-instruction multiple data instruction, said right-shift amount being independent of said bit length A of said first portion; and
- (iii) combining said first portion and said second portion to form respective different bit position portions of an output data word Rd.